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WENDEROTH, LIND & PONACK L.L.P.			BORSETTI, GREG	
2033 K. STREET, NW				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/589,491	MASAKI ET AL.	
	Examiner	Art Unit	
	GREG A. BORSETTI	4141	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 15 August 2006.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-13 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-13 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 15 August 2006 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 8/15/2006.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

1. Claims 1-13 are pending.

Information Disclosure Statement

2. The Information Disclosure Statement (IDS) submitted on 8/15/2006 is in compliance with the provisions of 37 CFR 1.97.

Drawings

3. The drawings filed on 8/15/2006 are not accepted by the examiner.

Page 48 of the specification refers to H1 to H13 of Figure 18. There are no references marked H1-H13 on Figure 18.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 4 cites that the boundary correction unit extends the boundaries for the CM section when a characteristic output instruction is received. However, within the scope of the invention, if a characteristic section is identified in the program section it is not understood why the CM section would be extended. Further clarification is needed.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1, 6-10 of the claimed invention is directed to non-statutory subject matter. Although claim 1 cites an output control unit determining, the output unit simply determines and does not output, thus claim 1 has no useful, tangible, or concrete output to satisfy the requirements of 35 U.S.C. 101.

Claim 12 of the claimed invention is directed to non-statutory subject matter. Claim 12 claims an AV content processing program executed by a computer causing the computer to execute the steps claimed. A program, which is an algorithm, is non-statutory under 35 U.S.C. 101. Examiner suggests amending the claim to claim a computer-readable medium containing a program which causes the computer or executable device to perform the claimed steps.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 5, 7, 9, and 11-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Covell et al. (US Patent #6782186).

As per claim 1, Covell discloses:

- **an acquisition unit for acquiring boundary information indicative of a boundary between the program section and the CM section**
- [Covell, columns 6-7, lines 61-67, 1-4] discloses “While in the automatically-marked zapping mode, block 13 determines if the current incoming frame is an unmatched frame which should be memorized by block 12. Sequential pattern matching of received information to memorized information is then performed at block 14 of FIG. 1. This step is performed autonomously by the system without user intervention. *Incoming information is characterized using summary statistics and then pattern matched to previously memorized information.*
- Block 16 determines if a successful match has been found in the incoming information and directs subsequent control appropriately.”**
- Covell describes an acquisition unit (block 14) which receives information that is compared to determine if an unwanted segment is detected. Although it is not explicitly stated, block 14 would inherently determine boundary information because it would have to mark the starting and the ending locations of the unwanted segment.
- **a first reception unit for receiving from a user an instruction for extracting and outputting a predetermined section in the AV content**
- [Covell, column 4, lines 58-63] discloses “the present invention does not require the user to locate such broadcast information, but only to provide a

representative sample of the stable (repeated from installment to installment) introductory information and the length of time to record once the introductory information is located." The user inputs an instruction to extract and output a predetermined section in the AV content, which is the desired segment.

- a boundary correction unit for selecting, in accordance with the instruction received by the first reception unit, whether the boundary is shifted in a direction for the CM section to be short or long, and correcting a content of the boundary information such that the boundary is shifted in accordance with the selected direction

- [Covell, column 18, lines 5-24] discloses "If the matched sequence is long enough as determined in step 288, step 290 updates the "chunking" of the memorized information. This step updates the sequencing information between the memorized frames that were matched and the memorized frames which were not matched so that the sequences contained in the memorized tables only cover pieces (chunks) of information which always occur together. The starting point of the matched sequence will form a "segment boundary" provided there was incoming information (which failed to match) immediately preceding that starting frame. In this case, the pointers which cross this segment boundary are nulled which indicates that the corresponding frame identifiers on either side of the segment boundary are "boundary frames". Similarly, the ending point of the matched sequence is updated. Thus, if memorized information follows the

matched information, the pointers across this segment boundary are nulled and the frame identifiers on either side of the segment become boundary frames as well. Once the memorized sequence is divided into chunks (if necessary), only the chunk that contains the user-marked frame is retained." The chunking process anticipates a boundary correction unit because information from the process and the user is used to define the initial boundaries and the chunking process modifies the boundaries based upon incoming and outgoing information and also sequence extension or contraction information.

- an output control unit for determining, when the instruction is received by the first reception unit, the boundary between the program section and the CM section in accordance with the corrected boundary information, and extracting and outputting a section indicated by the instruction

- [Covell, column 18, lines 62-64] discloses "step 332 controls a recording device to begin recording the incoming information for the time specified by the user."

Covell describes an output control unit that records the data subsequent to the chunking and pointer analysis for boundary determination in accordance with Fig. 9.

As per claim 2, claim 1 is incorporated and Covell discloses:

- the first reception unit is operable to receive from the user a program output instruction for outputting at least a portion of the program section

of the AV content and a CM output instruction for outputting at least a portion of the CM section of the AV content

- [Covell, columns 9-10, lines 66-67,1] discloses "For example, the user may mark the beginning credits of a favorite program or the user may mark a disliked commercial advertisement." Covell describes that the user may mark for both recording and omission. This inherently means that the unit which receives the input from the user is operable to mark a program or a commercial for recording.

- the boundary correction unit corrects the content of the boundary information such that the boundary is shifted in the direction for the CM section to be short when the program output instruction is received by the first reception unit, and corrects the content of the boundary information such that the boundary is shifted in the direction for the CM section to be long when the CM output instruction is received by the first reception unit

- [Covell, column 18, lines 5-24] discloses "If the matched sequence is long enough as determined in step 288, step 290 updates the "chunking" of the memorized information. This step updates the sequencing information between the memorized frames that were matched and the memorized frames which were not matched so that the sequences contained in the memorized tables only cover pieces (chunks) of information which always occur together. The starting point of the matched sequence will form a "segment boundary" provided there was incoming information (which failed to match)

immediately preceding that starting frame. In this case, the pointers which cross this segment boundary are nulled which indicates that the corresponding frame identifiers on either side of the segment boundary are "boundary frames". Similarly, the ending point of the matched sequence is updated. Thus, if memorized information follows the matched information, the pointers across this segment boundary are nulled and the frame identifiers on either side of the segment become boundary frames as well. Once the memorized sequence is divided into chunks (if necessary), only the chunk that contains the user-marked frame is retained." The chunking process sets the boundary frames to be the extension of the pointers which cross the segment boundary for whatever is chosen to be recorded. Thus, if a program is chosen to be recorded, its length would be increased and the commercial would be shortened. If the commercial is chosen, the commercial frames are extended, thus the program would be shortened.

- **the output control unit extracts and outputs, when the program output instruction is received by the first reception unit, a section indicated as a program section according to the corrected boundary information, and extracts and outputs, when the CM output section is received by the first reception unit, a section indicated as a CM section according to the corrected boundary information**

- [Covell, column 18, lines 62-64] discloses “step 332 controls a recording device to begin recording the incoming information for the time specified by the user.” Covell describes an output control unit that records the data subsequent to the chunking and pointer analysis for boundary determination in accordance with Fig. 9.

As per claim 5, claim 1 is incorporated and Covell discloses:

- a detection unit for calculating a parameter indicating characteristics of one of a sound and an image in the AV content and detecting a section for which the parameter satisfies a predetermined condition as a characteristic section, wherein

- [Covell, columns 4-5, lines 64-67, 1-2] discloses “Another advantage of the present invention is its applicability to a variety of media sources. The present invention is not limited to audio and/or video information, or broadcast information in general, but may be utilized for sequential pattern matching of virtually any time-based information signal.” Covell discloses that audio and video information is used for sequential pattern matching which would inherently define parameters which satisfy conditions for characteristic sections. Fig. 1 shows modules 12 and 14 which compute statistics and use them for pattern matching which teach the instant application.

- the reception unit is operable to receive from the user a characteristics output instruction for extracting and outputting the characteristic section in the program section**
- [Covell, column 6, lines 48-54] discloses "The information which is learned may be marked by the user or automatically marked by the system depending upon the particular mode selected in step 10. Information marked by a user for the surfing mode should include stable (repeated from installment to installment) identification information, such as opening credits or a title screen in the case of video information." The user provides stable characteristic output instructions for defining the bounds of the program, which would inherently contain the characteristic section that the user wants to see. In this case, the repeatable opening credits define a characteristic output instruction bounds where the opening credits are the characteristic section.**
- the boundary correction unit corrects, when the characteristics output instruction is received by the first reception unit, the content of the boundary information such that the boundary is shifted in the direction for the CM section to be short**
- [Covell, column 18, lines 5-24] discloses "If the matched sequence is long enough as determined in step 288, step 290 updates the "chunking" of the memorized information. This step updates the sequencing information between the memorized frames that were matched and the memorized frames which were not matched so that the sequences contained in the memorized tables**

only cover pieces (chunks) of information which always occur together. The starting point of the matched sequence will form a "segment boundary" provided there was incoming information (which failed to match) immediately preceding that starting frame. In this case, the pointers which cross this segment boundary are nulled which indicates that the corresponding frame identifiers on either side of the segment boundary are "boundary frames". Similarly, the ending point of the matched sequence is updated. Thus, if memorized information follows the matched information, the pointers across this segment boundary are nulled and the frame identifiers on either side of the segment become boundary frames as well. Once the memorized sequence is divided into chunks (if necessary), only the chunk that contains the user-marked frame is retained." The chunking process sets the boundary frames to be the extension of the pointers which cross the segment boundary for whatever is chosen to be recorded. If a characteristic section is defined in the program, the program is recorded and the boundaries for the program section are extended. Inherently, the boundaries of the commercial section would be shortened due to the lengthening of the program.

- the output control unit extracts and outputs, when the characteristics output instruction is received by the first reception unit, the characteristic section included in a section indicated as a program section according to the corrected boundary information

- [Covell, column 18, lines 62-64] discloses "step 332 controls a recording device to begin recording the incoming information for the time specified by the user." Covell describes an output control unit that records the data subsequent to the chunking and pointer analysis for boundary determination in accordance with Fig. 9.

As per claim 7, claim 1 is incorporated and Covell discloses:

- the boundary correction unit selects an amount of shift performed for a boundary indicating a start point and boundary indicating an end point of the CM section, based on a length of a program section immediately before the CM section

- [Covell, column 18, lines 5-24] discloses "If the matched sequence is long enough as determined in step 288, step 290 updates the "chunking" of the memorized information. This step updates the sequencing information between the memorized frames that were matched and the memorized frames which were not matched so that the sequences contained in the memorized tables only cover pieces (chunks) of information which always occur together. The starting point of the matched sequence will form a "segment boundary" provided there was incoming information (which failed to match) immediately preceding that starting frame. In this case, the pointers which cross this segment boundary are nulled which indicates that the corresponding frame identifiers on either side of the segment boundary

are "boundary frames". Similarly, the ending point of the matched sequence is updated. Thus, if memorized information follows the matched information, the pointers across this segment boundary are nulled and the frame identifiers on either side of the segment become boundary frames as well. Once the memorized sequence is divided into chunks (if necessary), only the chunk that contains the user-marked frame is retained." The chunking process sets the boundary frames to be the extension of the pointers which cross the segment boundary for whatever is chosen to be recorded. If a program is chosen to be recorded, the boundaries for the program section are extended. Inherently, the boundaries of the commercial section would be shortened due to the lengthening of the program section. This changes the amount of shift in the commercial section because the detection points remain the same, just that the boundaries are changed to accommodate the change in the length of the program section.

As per claim 9, claim 1 is incorporated and Covell discloses:

- **the boundary correction unit corrects, when a predetermined condition is satisfied for the CM section, the boundary information such that a boundary indicating a start point and boundary indicating an end point of the CM section are erased**
- [Covell, column 11, lines 54-59] discloses "At step 108 of FIG. 4, the starting location (i.e. frame number or position) for a memorized recording is cached.

This will be used in rewinding or reversing the recording to delete the memorized information detected within the incoming information stream if a sufficient number of sequential frames are matched.” The CM section is erased upon matching, which teaches a predetermined condition.

Claims 11-13 are rejected under the same principles as claim 1. Claim 11 cites the method as performed by the device of claim 1, claim 12 cites the computer program executing the steps of claim 1 and claim 13 cites the integrated circuit performing the steps of claim 1. [Covell, column 19, lines 3-12] discloses “Preferably, control logic 340 is implemented by a **computer programmed to effect system operation** as illustrated in FIGS. 1 through 9. Of course, the system and method of the present invention may be effected with **control logic implemented utilizing a number of combinations of general purpose and special purpose hardware and software**, such as application-specific **integrated circuits** (ASICs), reduced instruction set controllers (RISCs), programmable logic arrays (PLAs), discrete components, or the like.” Covell discloses the use of software and hardware which teach the instant application.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-4, 6, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable by Covell et al. (US Patent #6782186).

As per claim 3, claim 2 is incorporated and Covell teaches:

- **A second reception unit for receiving from the user a skip instruction for skipping a portion of the AV content being outputted by the output control unit, wherein when the skip instruction is received by the second reception unit during an output of the AV content between a boundary indicating a start point of a CM section according to the boundary information not corrected and a boundary indicating a start point of the CM section according to the boundary information having been corrected, the output control unit causes the output of the AV content to be skipped to an end point of the CM section according to the boundary information having been corrected, and, when the skip instruction is received by the second reception unit during an output of the AV content between a boundary indicating an end point of the CM section according to the boundary information not corrected and a boundary indicating the end point of the CM section according to the boundary information having been corrected, causes the output of the AV content to be skipped to the end point of the CM section according to the boundary information not corrected**
- [Covell, column 16, lines 23-29] discloses “Unlike the user-marked input process illustrated in FIGS. 3a and 3b, the assisted-marking input process of FIG. 7 automatically determines the endpoint of the sequence as being the minimum sequence length for a successful match (determined at step 230) after

the user-marked point (determined at step 228)." Covell has the option of operating in user-marked or assisted-marked processes. Provided the input falls within corrected and uncorrected boundaries, the user can operate in user-marked or assisted-marked input processes. It would be obvious to someone of ordinary skill that the same outcome is attained by having user-marked and assisted-marked processes. The user can either define the length of the boundaries personally or the assisted-marked process will define the minimum sequence length for a successful match. Thus, either the shortest length of the commercial or the longest length could be defined which defines a range over which the instant application is analogous.

As per claim 4, claim 1 is incorporated and Covell discloses:

- a detection unit for calculating a parameter indicating characteristics of one of a sound and an image in the AV content and detecting a section for which the parameter satisfies a predetermined condition as a characteristic section, wherein**
- [Covell, columns 4-5, lines 64-67, 1-2] discloses "Another advantage of the present invention is its applicability to a variety of media sources. The present invention is not limited to audio and/or video information, or broadcast information in general, but may be utilized for sequential pattern matching of virtually any time-based information signal." Covell discloses that audio and video information is used for sequential pattern matching which would**

inherently define parameters which satisfy conditions for characteristic sections.

Fig. 1 shows modules 12 and 14 which compute statistics and use them for pattern matching which teach the instant application.

- the reception unit is operable to receive from the user a characteristics output instruction for extracting and outputting the characteristic section in the program section

- [Covell, column 6, lines 48-54] discloses “The information which is learned may be marked by the user or automatically marked by the system depending upon the particular mode selected in step 10. Information marked by a user for the surfing mode should include stable (repeated from installment to installment) identification information, such as opening credits or a title screen in the case of video information.” The user provides stable characteristic output instructions for defining the bounds of the program, which would inherently contain the characteristic section that the user wants to see. In this case, the repeatable opening credits define a characteristic output instruction bounds where the opening credits are the characteristic section.

- the boundary correction unit corrects, when the characteristics output instruction is received by the first reception unit, the content of the boundary information such that the boundary is shifted in the direction for the CM section to be long

- [Covell, column 17, lines 60-66] discloses “If the end of a memorized sequence is detected at step 284, then step 286 determines whether it is appropriate to

extend the memorized video forward in time (as explained with reference to step 270). If the end of the matched memorized sequence is not a boundary frame (as defined below under step 290), the memorized information should be extended forward in time.” A characteristics output instruction is taught by a memorized sequence with a definable boundary frame. Thus, the program section does not extend the memorized video forward in time (extending the boundary of the program) which inherently means that the commercial frame is extended backward in time by the difference of not having the program extended forward in time.

- the output control unit extracts and outputs, when the characteristics output instruction is received by the first reception unit, the characteristic section included in a section indicated as a program section according to the corrected boundary information

- [Covell, column 18, lines 62-64] discloses “step 332 controls a recording device to begin recording the incoming information for the time specified by the user.” Covell describes an output control unit that records the data subsequent to the chunking and pointer analysis for boundary determination in accordance with Fig. 9.

As per claim 6, claim 1 is incorporated and Covell discloses:

- the acquisition unit further acquires CM number information indicating a number of CMs in the CM section and length information indicating a

length of the CM section, and the boundary correction unit selects an amount of shift performed for a boundary indicating a start point and boundary indicating an end point of the CM section, based on the CM number information and length information for the CM section

- [Covell, column 18, lines 5-24] discloses "If the matched sequence is long enough as determined in step 288, step 290 updates the "chunking" of the memorized information. This step updates the sequencing information between the memorized frames that were matched and the memorized frames which were not matched so that the sequences contained in the memorized tables only cover pieces (chunks) of information which always occur together. The starting point of the matched sequence will form a "segment boundary" provided there was incoming information (which failed to match) immediately preceding that starting frame. In this case, the pointers which cross this segment boundary are nulled which indicates that the corresponding frame identifiers on either side of the segment boundary are "boundary frames". Similarly, the ending point of the matched sequence is updated. Thus, if memorized information follows the matched information, the pointers across this segment boundary are nulled and the frame identifiers on either side of the segment become boundary frames as well. Once the memorized sequence is divided into chunks (if necessary), only the chunk that contains the user-marked frame is retained." The chunking process sets the boundary frames to be the

extension of the pointers which cross the segment boundary for whatever is chosen to be recorded. The acquisition unit determines the boundaries of the program and commercial sections. It would be obvious to someone of ordinary skill in the art that the number and length information defines position information. Boundary correction performs correction based upon position inherently. When the user defines wanted material, the position is determined and the boundaries are corrected. The rejected material is also corrected by proxy because of its positional relationship to the wanted material.

As per claim 8, claim 1 is incorporated and Covell discloses:

- **the boundary correction unit selects an amount of shift performed for a boundary indicating a start point and boundary indicating an end point of the CM section, based on a ratio of a length from a start of the AV content to the CM section to a length of the entire AV content**
- [Covell, column 18, lines 5-24] discloses "If the matched sequence is long enough as determined in step 288, step 290 updates the "chunking" of the memorized information. This step updates the sequencing information between the memorized frames that were matched and the memorized frames which were not matched so that the sequences contained in the memorized tables only cover pieces (chunks) of information which always occur together. **The starting point of the matched sequence will form a "segment boundary" provided there was incoming information (which failed to match)**

immediately preceding that starting frame. In this case, the pointers which cross this segment boundary are nulled which indicates that the corresponding frame identifiers on either side of the segment boundary are "boundary frames". Similarly, the ending point of the matched sequence is updated. Thus, if memorized information follows the matched information, the pointers across this segment boundary are nulled and the frame identifiers on either side of the segment become boundary frames as well. Once the memorized sequence is divided into chunks (if necessary), only the chunk that contains the user-marked frame is retained." The chunking process sets the boundary frames to be the extension of the pointers which cross the segment boundary for whatever is chosen to be recorded. The acquisition unit determines the boundaries of the program and commercial sections. It would be obvious to someone of ordinary skill in the art that the ratio of a length from the start of the AV content to the CM section to a length of the entire AV content is a measure of position. Boundary correction performs correction based upon position inherently. When the user defines wanted material, the position is determined and the boundaries are corrected. The rejected material is also corrected by proxy because of its positional relationship to the wanted material.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable by Covell et al. (US Patent #6782186 hereinafter Covell) in view of Dagtas et al. (US Pre-Grant Publication #20020080286 hereinafter Dagtas).

As per claim 10, claim 1 is incorporated and Covell fails to teach:

- the boundary correction unit changes an amount of shift performed for the boundary based on the acquired program information

Dagtas, in analogous art, teaches the above limitation,

- [Dagtas, ¶ 0051] discloses 'The weighting factor may be a number that represents the relative importance assigned to the category change in assessing the likelihood of locating a boundary at the point where the particular change in category occurs. For example, if it is determined that a change from "silence" to "music" is more likely to be associated with an initial boundary, then the numerical factor that represents that particular category change may be multiplied by a "weighting factor" to increase the relative impact of that particular category change in determining the likelihood of the existence of an initial boundary.' It would be obvious to someone of ordinary skill in the art that audio information could be acquired from the program as auxiliary information such as music as shown above. That information is used to define the boundaries of the program or commercial sections in which shifting would take place according to the invention of Covell.

- Covell and Dagtas are analogous art because both pertain to the identification of program segments and the rejection of commercial segments. It would be obvious to someone of ordinary skill in the art at the time of the invention to combine Dagtas with the Covell device because "It is also an object of the present invention to provide an improved system and method for identifying boundaries using classification of audio signals into audio subcategories such as speech with background music, speech with background noise, music invention that follows [Dagtas, ¶ 0020]." Dagtas provides additional method for identifying program boundaries to the Covell device which further modifies the boundaries based upon analysis.

Conclusion

8. Refer to PTO-892, Notice of References Cited for a listing of analogous art.
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to GREG A. BORSETTI whose telephone number is (571)270-3885. The examiner can normally be reached on Monday - Thursday (8am - 5pm Eastern Time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chameli Das can be reached on 571-272-3696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Greg A. Borsetti/
Examiner, Art Unit 4141

/CHAMELI C. DAS/
Supervisory Patent Examiner, Art Unit 4141
Dated: 4/24/08